

SAMPLE PREPARATION- TOTAL PHOSPHORUS SM 18th, 20th Ed. 4500-P B						Page 1 of 2
Facility Name: _____ VELAP ID _____						
Assessor Name: _____ Analyst Name: _____ Inspection Date _____						
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments	
Records Examined: _____						
Date of Analysis: _____ Date(s) of Sample Preparation: _____ Analyst: _____						
Was one of these methods used to liberate phosphorous from organic compounds when determining total phosphorous by an orthophosphate method?	4500-P A. Intro. 3 a					
Were samples stored at -10°C?	4500-P A. Intro. 5					
Were all glass containers rinsed in hot, dilute HCL and reagent water and never subjected to commercial detergents?	4500-P A. Intro. 5					
Were samples filtered immediately after collection when dissolved phosphorous forms were to be differentiated?	4500-P A. Intro. 5					
Were samples filtered through 0.45µm filter prior to determinations of dissolved reactive phosphorous, dissolved acid-hydrolyzable phosphorous, and total dissolved phosphorous?	4500-P B 1					
Were membrane filters prepped by either soaking 50 in 2-L distilled water overnight or soaking 50 in 2-L distilled water for 1-hour then changing the water and soaking an additional 3-hours?	4500-P B 1					
Was one drop of phenolphthalein added to each sample?	4500-P B 5 c					
If samples developed a red color after phenolphthalein addition, was enough H ₂ SO ₄ added to them dropwise to discharge the color?	4500-P B 5 c					
Next was 1 mL H ₂ SO ₄ and 0.4 g (NH ₄) ₂ S ₂ O ₈ or 0.5 g K ₂ S ₂ O ₈ added to each sample aliquot?	4500-P B 5 c					
Were sample aliquots boiled gently on a preheated hotplate for 30 or 40 minutes or until a final volume of 10mL was reached or heated for 30 mins at 98 to 137 kPa and brought to 100mL?	4500-P B 5 c					
If organophosphorous compounds were believed present were samples boiled for 1.5 to 2.0 hours?	4500-P B 5 c					
Notes/ Comments:						

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Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Were digested samples cooled, diluted to 30 mL with distilled water, and have 1 drop of phenolphthalein added to them?	4500-P B 5 c				
Were samples next neutralized to a faint pink color with NaOH?	4500-P B 5 c				
Were samples not filtered even if precipitates formed?	4500-P B 5 c				
Were calibration standards carried through the same preparations as samples?	4500-P B 5 c				
Notes/ Comments:					